Author Index

Arnaud, F., s. Nowak, D., et al. 43

Barquín, N., Sansores, R., Chapela, R., Pérez-Tamayo, R., Selman, M.: Immunoregulatory Abnormalities in Patients with Pigeon Breeder's Disease 103
Bégin, R., s. Larivée, P., et al. 151
Bellofiore, S., s. Eidelman, D. H., et al. 159
Ben-Harari, R. R., s. Parent-Ermini, A. 259
Bergofsky, E. H., s. Vitkun, S. A., et al. 249
Betti, S., s. Borrelli, E., et al. 35
Borrelli, E., Giomarelli, P., Chiara, O., Casini, A., Betti, S., Sabatini, L., Lorenzini, L., Grossi, A.: Lipid Peroxidation and Lung Ultrastructural Changes in an Experimental Model of Leukocyte-Mediated Pulmonary Injury 35
Braun, O., s. Popp, W., et al. 221
Brown, G. M., s. Li, X. Y., et al. 309
Brüch, M., s. Nowak, D., et al. 43
Budik, G., s. Zwick, H., et al. 111
Burbach, J. A., s. Schlenker, E. H. 125

Cantin, A., s. Larivée, P., et al. 151
Casadei, M. C., s. Marchioni, C. F., et al. 285
Casini, A., s. Borrelli, E., et al. 35
Chan, H. S., Sun, A. J. M., Hoheisel, G. B.: Bronchoscopic Aspiration and Bronchoalveolar Lavage in the Diagnosis of Sputum Smear-Negative Pulmonary Tuberculosis 215
Chapela, R., s. Barquín, N., et al. 103
Chiara, O., s. Borrelli, E., et al. 35
Chiche, D., s. Eidelman, D. H., et al. 159
Chodimella, V., s. Lew, D. B., et al. 273
Cosio, M. G., s. Eidelman, D. H., et al. 159

Dahl, R., s. Harving, H., et al. 15
Donaldson, K., s. Li, X. Y., et al. 309
Downey, S. A., s. Oelberg, D. G., et al. 297
Drazen, J. M., s. Ingenito, E. P., et al. 23
Dufresne, A., s. Larivée, P., et al. 151

Eber, E., s. Varga, E.-M., et al. 267
Eidelman, D. H., Bellofiore, S., Chiche, D., Cosio, M. G., Martin, J. G.: Behavior of Morphometric Indices in Pancreatic Elastase-Induced Emphysema in Rats 159

Fabel, H., s. Nowak, D., et al. 43
Flynn, M. M., s. Oelberg, D. G., et al. 297
Foster, W. M., s. Vitkun, S. A., et al. 249
Fregnan, G. B., s. Marchioni, C. F., et al. 285
Fujimoto, K., Sakai, A., Yoshikawa, S., Shinozaki, S., Matsuzawa, Y., Kubo, K., Kobayashi, T., Ueda, G., Sekiguchi, M., Voelkel, N. F.: Effect of Cyclic Guanosine Monophosphate on Hypoxic and Angiotensin-II-Induced Pulmonary Vasoconstriction 333

Gehrke, I., Pabst, R.: Cell Composition and Lymphocyte Subsets in the Bronchoalveolar Lavage of Normal Pigs of Different Ages in Comparison with Germfree and Pneumonic Pigs 79
Gerblich, A., s. Varghese, J., et al. 69
Giomarelli, P., s. Borrelli, E., et al. 35
Grossi, A., s. Borrelli, E., et al. 35
Guerzoni, P., s. Marchioni, C. F., et al. 285

Harving, H., Korsgaard, J., Pedersen, O. F., Mølhave, L., Dahl, R.: Pulmonary Function and Bronchial Reactivity in Asthmatics During Low-Level Formaldehyde Exposure 15
Hoheisel, G. B., s. Chan, H. S., et al. 215

Ingenito, E. P., Pichurko, B. M., Lafleur, J., Drazen, J. M., Ingram, R. H., Jr., Solway, J.: Breathing Pattern Affects Respiratory Heat Loss but Not Bronchoconstrictor Response in Asthma 23
Ingram, R. H., Jr., s. Ingenito, E. P., et al. 23
Ingram, R. H., Jr.: Physiological Assessment of Inflammation in the Peripheral Lung of Asthmatic Patients 237

Kiessling, D., s. Nowak, D., et al. 43
Knudsen, K. M., s. Vestbo, J., et al. 93
Kobayashi, T., s. Fujimoto, K., et al. 333
Kolarz, G., s. Popp, W., et al. 221
Korsgaard, J., s. Harving, H., et al. 15
Kubo, K., s. Fujimoto, K., et al. 333

Lafleur, J., s. Ingenito, E. P., et al. 23
Lamb, D., s. Li, X. Y., et al. 309
Larivée, P., Cantin, A., Dufresne, A., Bégin, R.: Enzyme Activities of Lung Lavage in Silicosis 151
Lew, D. B., Chodimella, V., Murlas, C. G.: Guinea Pig Ozone-Induced Airway Hyperreactivity is Associated with Increased N-Acetyl-β-D-Glucosaminidase Activity in Bronchoalveolar Lavage Fluid 273
Li, X. Y., Brown, G. M., Lamb, D., Donaldson, K.: Secretion of Plasminogen Activator Inhibitor by Normal Rat Pleural Leukocytes in Culture 309
Lorenzini, L., s. Borrelli, E., et al. 35

Magnussen, H., s. Nowak, D., et al. 43
Manning, H. L., s. Schwartzstein, R. M., et al. 185
Marchioni, C. F., Moretti, M., Muratori, M., Casadei, M. C., Guerzoni, P., Scuri, R., Fregnan, G. B.: Effects of Erdosteine on Sputum Biochemical and Rheologic Properties: Pharmacokinetics in Chronic Obstructive Lung Disease 285
Martin, J. G., s. Eidelman, D. H., et al. 159

Matsuzawa, Y., s. Fujimoto, K., et al. 333
Mølhave, L., s. Harving, H., et al. 15
Moretti, M., s. Marchioni, C. F., et al. 285
Muratori, M., s. Marchioni, C. F., et al. 285
Murlas, C. G., s. Lew, D. B., et al. 273

Nolte, D., s. Nowak, D., et al. 43
Nowak, D., Brüch, M., Arnaud, F., Fabel, H., Kiessling, D., Nolte, D., Overlack, A., Rolke, M., Ulmer, W. T., Worth, H., Wywiol, A., Zimmerman, I., Magnussen, H.: Peripheral Neuropathies in Patients with Chronic Obstructive Pulmonary Disease: A Multicenter Prevalence Study 43

Oelberg, D. G., Downey, S. A., Flynn, M. M.: Bile Salt-Induced Intracellular Ca^{++} Accumulation in Type II Pneumocytes 297
Overlack, A., s. Nowak, D., et al. 43

Pabst, R., s. Gehrke, I. 79
Parent-Ermini, A., Ben-Harari, R. R.: Effect of Volatile Anesthetics on Endogenous Tryptophan, 5-Hydroxytryptophan and 5-Hydroxytryptamine in Rat Lung 259
Pedersen, O. F., s. Harving, H., et al. 15
Pérez-Tamayo, R., s. Barquín, N., et al. 103
Pichurko, B. M., s. Ingenito, E. P., et al. 23
Popp, W., s. Zwick, H., et al. 111
Popp, W., s. Rauscher, H., et al. 209
Popp, W., Ritschka, L., Scherak, O., Braun, O., Kolarz, G., Rauscher, H., Zwick, H.: Bronchoalveolar Lavage in Rheumatoid Arthritis and Secondary Sjögren's Syndrome 221
Poppers, P. J., s. Vitkun, S. A., et al. 249
Prezant, D. J.: Effect of Uremia and its Treatment on Pulmonary Function 1

Rappaport, R., s. Sklan, D., et al. 323
Rasmussen, F. V., s. Vestbo, J., et al. 93
Rauscher, H., s. Zwick, H., et al. 111
Rauscher, H., Popp, W., Zwick, H.: Flow–Volume Curves in Obstructive Sleep Apnea and Snoring 209
Rauscher, H., s. Popp, W., et al. 221
Ritschka, L., s. Popp, W., et al. 221
Road, J. D.: Phrenic Afferents and Ventilatory Control 137
Rolke, M., s. Nowak, D., et al. 43
Rüfer, R., s. Wuthe, J., et al. 53

Sabatini, L., s. Borrelli, E., et al. 35
Sakai, A., s. Fujimoto, K., et al. 333
Salik, H., s. Varghese, J., et al. 69
Sansores, R., s. Barquín, N., et al. 103
Santos, G. H., s. Shim, C., et al. 201
Scherak, O., s. Popp, W., et al. 221
Schlenker, E. H., Burbach, J. A.: Structure and Function of the Respiratory System of the Dystrophic Hamster 125
Schuyler, M., s. Varghese, J., et al. 69
Schwartzstein, R. M., Manning, H. L., Weiss, J. W., Weinberger, S. E.: Dyspnea: A Sensory Experience 185
Scuri, R., s. Marchioni, C. F., et al. 285
Sekiguchi, M., s. Fujimoto, K., et al. 333
Selman, M., s. Barquín, N., et al. 103
Shim, C., Santos, G. H., Zelefsky, M.: Percutaneous Drainage of Lung Abscess 201
Shinozaki, S., s. Fujimoto, K., et al. 333
Sklan, D., Rappaport, R., Vered, M.: Inhibition of the Activity of Human Leukocyte Elastase by Lipids Particularly Oleic Acid and Retinoic Acid 323
Solway, J., s. Ingenito, E. P., et al. 23
Sun, A. J. M., s. Chan, H. S., et al. 215

Ueda, G., s. Fujimoto, K., et al. 333
Ulmer, W. T., s. Nowak, D., et al. 43

Varga, E.-M., Eber, E., Zach, M. S.: Cold Air Challenge for Measuring Airway Reactivity in Children: Lack of a Late Asthmatic Reaction 267
Varghese, J., Gerblich, A., Salik, H., Schuyler, M.: Antigen-Induced T-Cell Changes: Modulation by Pharmacologic Agents 69
Vered, M., s. Sklan, D., et al. 323
Vestbo, J., Knudsen, K. M., Rasmussen, F. V.: Predictive Value of the Single-Breath Nitrogen Test for Hospitalization Due to Respiratory Disease 93
Vitkun, S. A., Foster, W. M., Bergofsky, E. H., Poppers, P. J.: Large and Small Airway Responses to Bronchoconstrictors in the Guinea Pig and Ferret 249
Voelkel, N. F., s. Fujimoto, K., et al. 333

Wanke, T., s. Zwick, H., et al. 111
Weinberger, S. E., s. Schwartzstein, R. M., et al. 185
Weiss, J. W., s. Schwartzstein, R. M., et al. 185
Widjaja, B., s. Wuthe, J., et al. 53
Williams, M. H., Jr.: Asthma: The Pulse is Not the Paradox 179
Williams, M. H., Jr.: What is Sarcoidosis? (Editorial) 67
Worth, H., s. Nowak, D., et al. 43
Wuthe, J., Widjaja, B., Rüfer, R.: Positive Influence of Nifedipine on Early-Stage Minipig Shock Lung 53
Wywiol, A., s. Nowak, D., et al. 43

Yoshikawa, S., s. Fujimoto, K., et al. 333

Zach, M. S., s. Varga, E.-M., et al. 267
Zelefsky, M., s. Shim, C., et al. 201
Zimmerman, I., s. Nowak, D., et al. 43
Zwick, H., Popp, W., Budik, G., Wanke, T., Rauscher, H.: Increased Sensitization to Aeroallergens in Competitive Swimmers 111
Zwick, H., s. Popp, W., et al. 221
Zwick, H., s. Rauscher, H., et al. 209

Title and Key Word Index

(Book reviews are listed under "Books")

Abscess, percutaneous tube drainage 201
Airflow obstruction 179
Airway hyperreactivity 267
Airway inflammation 237
Allergy, chlorine 111
Anesthetics, volatile 259
Angiotensin 333
Antigen-Induced T-Cell Changes: Modulation by Pharmacologic Agents. J. Varghese, A. Gerblich, H. Salik, M. Schuyler 69
Apnea, obstructive sleep 209
ARDS 53
Asthma 15, 179, 237, 275
Asthma, childhood 267
Asthma, exercise-induced 23
Asthma, T-cell changes 69
Asthma: The Pulse is Not the Paradox. M. H. Williams, Jr. 179

Behavior of Morphometric Indices in Pancreatic Elastase-Induced Emphysema in Rats. D. H. Eidelman, S. Bellofiore, D. Chiche, M. G. Cosio, J. G. Martin 159
Bile salts 297
Bile Salt-Induced Intracellular Ca^{++} Accumulation in Type II Pneumocytes. D. G. Oelberg, S. A. Downey, M. M. Flynn 297
BIO 14.6 hamster 125
Books
—Airway Responsiveness and Atopy in the Development of Chronic Lung Disease. Edited by S. T. Weiss and D. Sparrow (reviewed by M. H. Williams, Jr.) 63
—Biology of Lung Cancer. Edited by S. T. Rosen, J. L. Mulshine, F. Cuttitta, and P. G. Abrams (reviewed by M. H. Williams, Jr.) 119
—Biopsy Techniques in Pulmonary Disorders. Edited by K. P. Wang (reviewed by M. H. Williams, Jr.) 121
—Chronic Obstructive Pulmonary Disease. Edited by A. J. McSweeny and I. Grant (reviewed by M. H. Williams, Jr.) 117
—Comparative Pulmonary Physiology. Edited by S. C. Wood (reviewed by S. Marsh Tenney) 172
—Heart-Lung Interactions In Health and Disease. Edited by S. M. Scharf and S. S. Cassidy (reviewed by M. H. Williams, Jr.) 64
—Lung Cell Biology. Edited by D. Massaro (reviewed by M. H. Williams, Jr.) 120
—Pulmonary Vascular Physiology and Pathophysiology. Edited by E. K. Weir and J. T. Reeves (reviewed by M. H. Williams, Jr.) 118
—Respiratory Physiology. An Analytical Approach. Edited by M. K. Chang and Manuel Paiva (reviewed by S. Park) 171
—Basic Research on Lung Surfactant. Edited by P. von Wichert and B. Müller (reviewed by M. H. Williams, Jr.) 233
—Pulmonary Circulation (Advances and Controversies). Edited by C. A. Wagenvoort and H. Denolin (reviewed by M. H. Williams, Jr.) 234
Breathing Pattern Affects Respiratory Heat Loss but Not Bronchoconstrictor Response in Asthma. E. P. Ingenito, B. M. Pichurko, J. Lafleur, J. M. Drazen, R. H. Ingram, Jr., J. Solway 23
Breathlessness 185
Bronchial hyperresponsiveness 111
Bronchial reactivity 273
Bronchitis, chronic obstructive 285
Bronchoalveolar lavage 79, 215, 221
Bronchoalveolar Lavage in Rheumatoid Arthritis and Secondary Sjögren's Syndrome. W. Popp, L. Ritschka, O. Scherak, O. Braun, G. Kolarz, H. Rauscher, H. Zwick 221
Bronchodilation 237
Bronchodilators 285
Bronchoscopic Aspiration and Bronchoalveolar Lavage in the Diagnosis of Sputum Smear-Negative Pulmonary Tuberculosis. H. S. Chan, A. J. M. Sun, G. B. Hoheisel 215

Calcium, Type II pneumocytes 297
Cell Composition and Lymphocyte Subsets in the Bronchoalveolar Lavage of Normal Pigs of Different Ages in Comparison with Germfree and Pneumonic Pigs. I. Gehrke, R. Pabst 79
Chlorine 111
Chronic obstructive pulmonary disease 43
Cold air challenge 267
Cold Air Challenge for Measuring Airway Reactivity in Children: Lack of a Late Asthmatic Reaction. E.-M. Varga, E. Eber, M. S. Zach 267
Control of breathing 137
Cyclic GMP 333
Cyclic GMP phosphodiesterase inhibitory 333
Cytotoxicity 151, 297

Diaphragm 137
Dyspnea 185
Dyspnea: A Sensory Experience. R. M. Schwartzstein, H. L. Manning, J. W. Weiss, S. E. Weinberger 185
Dyspnea, effort 185
Dyspnea, language 185

Effect of Cyclic Guanosine Monophosphate on Hypoxic and Angiotensin-II-Induced Pulmonary Vasoconstriction. K. Fujimoto, A. Sakai, S. Yoshikawa, S. Shinozaki, Y. Matsuzawa, K. Kubo, T. Kobayashi, G. Ueda, M. Sekiguchi, N. F. Voelkel 333
Effect of Uremia and its Treatment on Pulmonary Function. D. J. Prezant 1

Effect of Volatile Anesthetics on Endogenous Tryptophan, 5-Hydroxytryptophan and 5-Hydroxytryptamine in Rat Lung. A. Parent-Ermini, R. R. Ben-Harari 259
Effects of Erdosteine on Sputum Biochemical and Rheologic Properties: Pharmacokinetics in Chronic Obstructive Lung Disease. C. F. Marchioni, M. Moretti, M. Muratori, M. C. Casadei, P. Guerzoni, R. Scuri, G. B. Fregnan 285
Elastase 159, 323
Emphysema 323
Enzyme Activities of Lung Lavage in Silicosis. P. Larivée, A. Cantin, A. Dufresne, R. Bégin 151
Epidemiology 93
Exposure study, formaldehyde 15

Fibrinolysis 309
Flow–volume curve 209
Flow–Volume Curves in Obstructive Sleep Apnea and Snoring. H. Rauscher, W. Popp, H. Zwick 209
Forced expiratory volume in 1 sec 93
Formaldehyde 15
Free radical scavengers 285

Germfree animals 79
Golgi tendon organs 137
Guinea Pig Ozone-Induced Airway Hyperreactivity is Associated with Increased N-Acetyl-β-D-Glucosaminidase Activity in Bronchoalveolar Lavage Fluid. D. B. Lew, V. Chodimella, C. G. Murlas 273

Heat loss 23
Hemodialysis 1
Hexosaminidase 273
Hospitalization 93
Hypersensitivity pneumonitis 103
Hypoxemia 43
Hypoxic pulmonary vasoconstriction 333

Immunoregulatory Abnormalities in Patients with Pigeon Breeder's Disease. N. Barquín, R. Sansores, R. Chapela, R. Pérez-Tamayo, M. Selman 103
Immunosuppression 103
Increased Sensitization to Aeroallergens in Competitive Swimmers. H. Zwick, W. Popp, G. Budik, T. Wanke, H. Rauscher 111
Inhibition of the Activity of Human Leukocyte Elastase by Lipids Particularly Oleic Acid and Retinoic Acid. D. Sklan, R. Rappaport, M. Vered 323
Inspiration, deep 237

Lactate dehydrogenase 151
Large and Small Airway Responses to Bronchoconstrictors in the Guinea Pig and Ferret. S. A. Vitkun, W. M. Foster, E. H. Bergofsky, P. J. Poppers 249
Late asthmatic reaction 267
Leukocytes 35
Lipid peroxidation 35
Lipid Peroxidation and Lung Ultrastructural Changes in an Experimental Model of Leukocyte-Mediated Pulmonary Injury. E. Borrelli, P. Giomarelli, O. Chiara, A. Casini, S. Betti, L. Sabatini, L. Lorenzini, A. Grossi 35
Lipids 323
Lung abscess 201
Lung lavage 151
Lung tryptophan, metabolism 259
Lymphocyte subsets 79
Lysosomal hydrolase 273

Meclofenamate 333
Meconium 297
Minipigs, pneumonia model 79
Mucolytics 285
Muscle 125
Muscular dystrophy 125

Nifedipine 53

Oleic acid 323
Oxidants 273

Percutaneous Drainage of Lung Abscess. C. Shim, G. H. Santos, M. Zelefsky 201
Peripheral Neuropathies in Patients with Chronic Obstructive Pulmonary Disease: A Multicenter Prevalence Study. D. Nowak, M. Brüch, F. Arnaud, H. Fabel, D. Kiessling, D. Nolte, A. Overlack, M. Rolke, W. T. Ulmer, H. Worth, A. Wywiol, I. Zimmermann, H. Magnussen 43
Peripheral neuropathy 43
Peritoneal dialysis 1
Phrenic Afferents and Ventilatory Control. J. D. Road 137
Physiological Assessment of Inflammation in the Peripheral Lung of Asthmatic Patients. R. H. Ingram, Jr. 237
Pigeon breeder's disease 103
Plasminogen activator inhibitor 309
Pleural leukocyte 309
Pneumonia 79
Polymodal receptors 137
Positive Influence of Nifedipine on Early-Stage Minipig Shock Lung. J. Wuthe, B. Widjaja, R. Rüfer 53
Predictive Value of the Single-Breath Nitrogen Test for Hospitalization Due to Respiratory Disease. J. Vestbo, K. M. Knudsen, F. V. Rasmussen 93
Pressure–Volume diagram 53
Prostaglandins 103
Prostaglandin suppressor system 103
Pulmonary compliance 159
Pulmonary emphysema 159
Pulmonary function 1

Pulmonary Function and Bronchial Reactivity in Asthmatics During Low-Level Formaldehyde Exposure. H. Harving, J. Korsgaard, O.F. Pedersen, L. Mølhave, R. Dahl 15
Pulmonary injury 35
Pulmonary macrophage 125

Quartz 151

Respiratory muscles 137
Respiratory system 125
Retinoic acid 323
Rheumatoid arthritis 221

Secretion of Plasminogen Activator Inhibitor by Normal Rat Pleural Leukocytes in Culture. X. Y. Li, G. M. Brown, D. Lamb, K. Donaldson 309
Silicosis 151
Single-breath nitrogen test 93
Sjögren's syndrome 221
Smear-negative tuberculosis 215
Snoring 209
Spirometry 93
Structure and Function of the Respiratory System of the Dystrophic Hamster. E. H. Schlenker, J. A. Burbach 125
Swimming pool, chlorine 111

T-cell suppression 103
T cells, pharmacologic modulation 69
Thin-fiber afferents 137
Thrombin shock 53

Uremia 1

Ventilation 125